Claim Appendix

 (Previously Presented) A method for paging a target mobile station (MS), the method comprising:

receiving information destined for the target MS;

paging the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell; and

receiving registration from the MS when a number of cells identified in a first list is equal to a predetermined limit and the MS having moved the cells identified in the first list, other than a cell in which the MS last registered, to a second list.

- (Original) The method of claim 1, further including sending the information to the target MS, if the target MS is located.
- (Original) The method of claim 2, further including determining a neighboring base station controller (BSC) that can locate the target MS, if the target MS is not located.
- (Original) The method of claim 3, further including sending the information to the neighboring BSC that locates the target MS for delivery to the target MS.
- (Original) The method of claim 3, further including determining whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.
- (Original) The method of claim 5, further including sending the information to the MSC for delivery to the target MS, if the MSC locates the target MS.
- 7. (Previously Presented) A computer-readable medium comprising at least one instruction, which, when executed by a machine, cause the machine to perform operations for paging a target mobile station (MS), the instruction comprising:

a set of the instructions to receive information destined for the target MS;

a set of the instructions to page the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell; and

a set of instructions to receive registration from the MS when a number of cells identified in a first list is equal to a predetermined limit and the MS having moved the cells identified in the first list, other than a cell in which the MS last registered, to a second list.

- (Previously Presented) The computer-readable medium of claim 7, further comprising a set of instructions to send the information to the target MS, if the target MS is located
- (Previously Presented) The computer-readable medium of claim 8, further comprising a set of instructions to determine a neighboring base station controller (BSC) that can locate the target MS, if the target MS is not located.
- (Previously Presented) The computer-readable medium of claim 9, further
 comprising a set of instructions to send the information to the neighboring BSC that locates the
 target MS for delivery to the target MS.
- (Previously Presented) The computer-readable medium of claim 9, further comprising a set of instructions to determine whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.
- (Previously Presented) The computer-readable medium of claim 11, further
 comprising a set of instructions to send the information to the MSC for delivery to the target MS,
 if the MSC locates the target MS.

 (Previously Presented) An apparatus for paging a target mobile station (MS), comprising:

means for receiving information destined for the target MS;

means for paging the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell; and

means for receiving registration from the MS when a number of cells identified in a first list is equal to a predetermined limit and the MS having moved the cells identified in the first list, other than a cell in which the MS last registered, to a second list.

- (Original) The apparatus of claim 13, further including means for sending the information to the target MS, if the target MS is located.
- 15. (Original) The apparatus of claim 14, further including means for determining a neighboring base station controller (BSC) that can locate the target MS, if the target MS is not located.
- (Original) The apparatus of claim 15, further including means for sending the information to the neighboring BSC that locates the target MS for delivery to the target MS.
- 17. (Original) The apparatus of claim 15, further including means for determining whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.
- (Previously Presented) The apparatus of claim 17, further including means for sending the information to the MSC for delivery to the target MS, if the MSC locates the target MS.

- (Previously Presented) A base station controller (BSC) for paging a target mobile station (MS), comprising:
 - a receiver operable to receive information from a target MS;
 - a transmitter operable to transmit information to the target MS; and
 - a processor operable to:

receive information destined for the target MS;

page the target MS at a paging area that is centered at a cell, in which the target MS last registered, and expands by a predefined number of cells around the cell; and

receive registration from the MS when a number of cells identified in a first list is equal to a predetermined limit and the MS having moved the cells identified in the first list, other than a cell in which the MS last registered, to a second list.

- (Previously Presented) The base station controller of claim 19, further operable to send information to the BSC for delivery to the target MS, if the BSC locates the target MS.
- (Previously Presented) The base station controller of claim 20, further operable to determine a neighboring BSC that can locate the target MS, if the BSC could not locate the target MS.
- 22. (Previously Presented) The base station controller of claim 21, further operable to send information to the neighboring BSC that locates the target MS for delivery to the target MS.
- 23. (Previously Presented) The base station controller of claim 21, further operable to determine whether a mobile station controller (MSC) can locate the target MS, if no BSC connected to the MSC could locate the target MS.
- (Previously Presented) The base station controller of claim 23, further operable to send information to the MSC for delivery to the target MS, if the MSC locates the target MS.